

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P798615

Luminaire Tested: **ARCH1-20-730-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P798615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH1-20-730-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

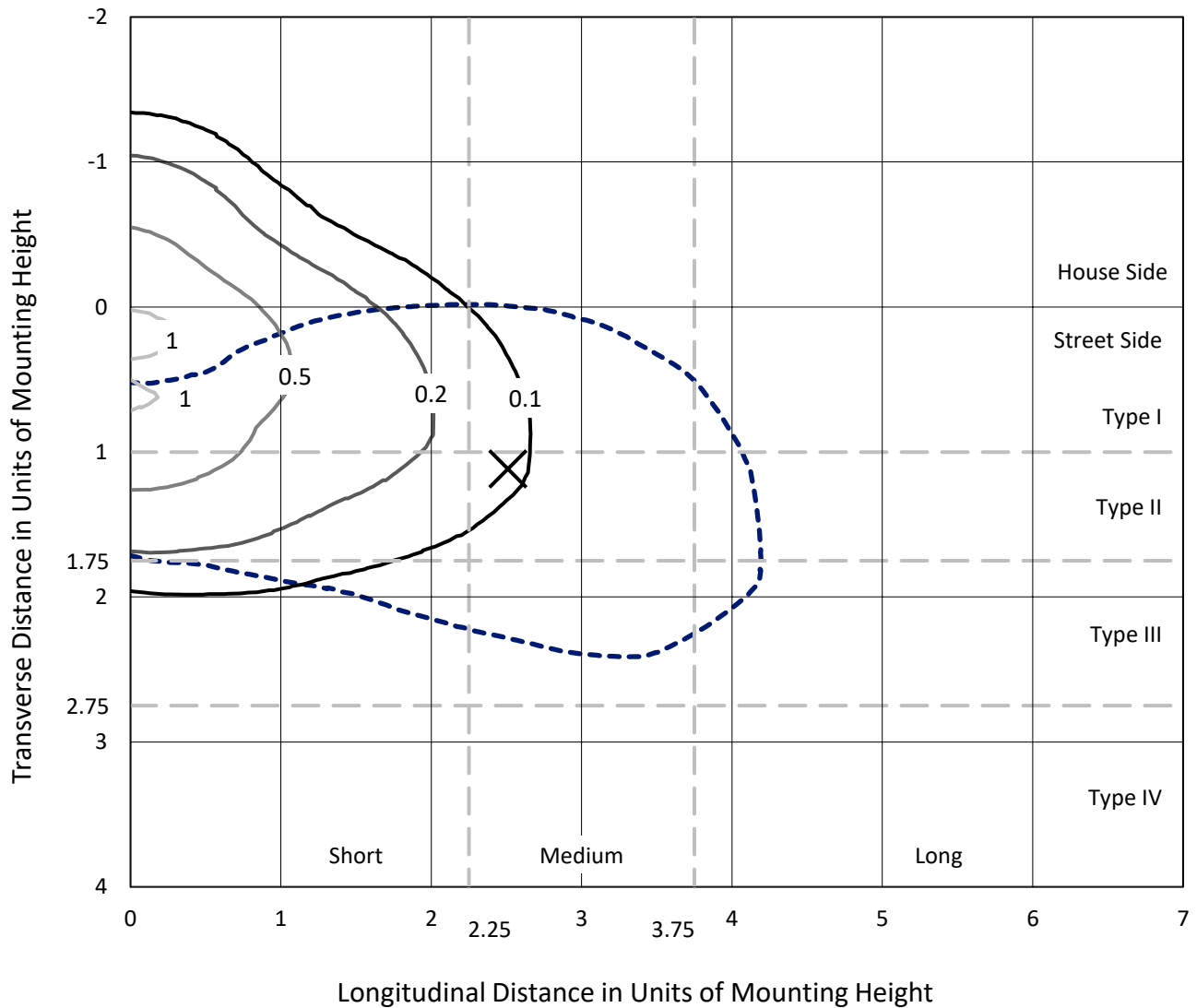
Lumens per Lamp: N/A  
Luminaire Lumens: 3418 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

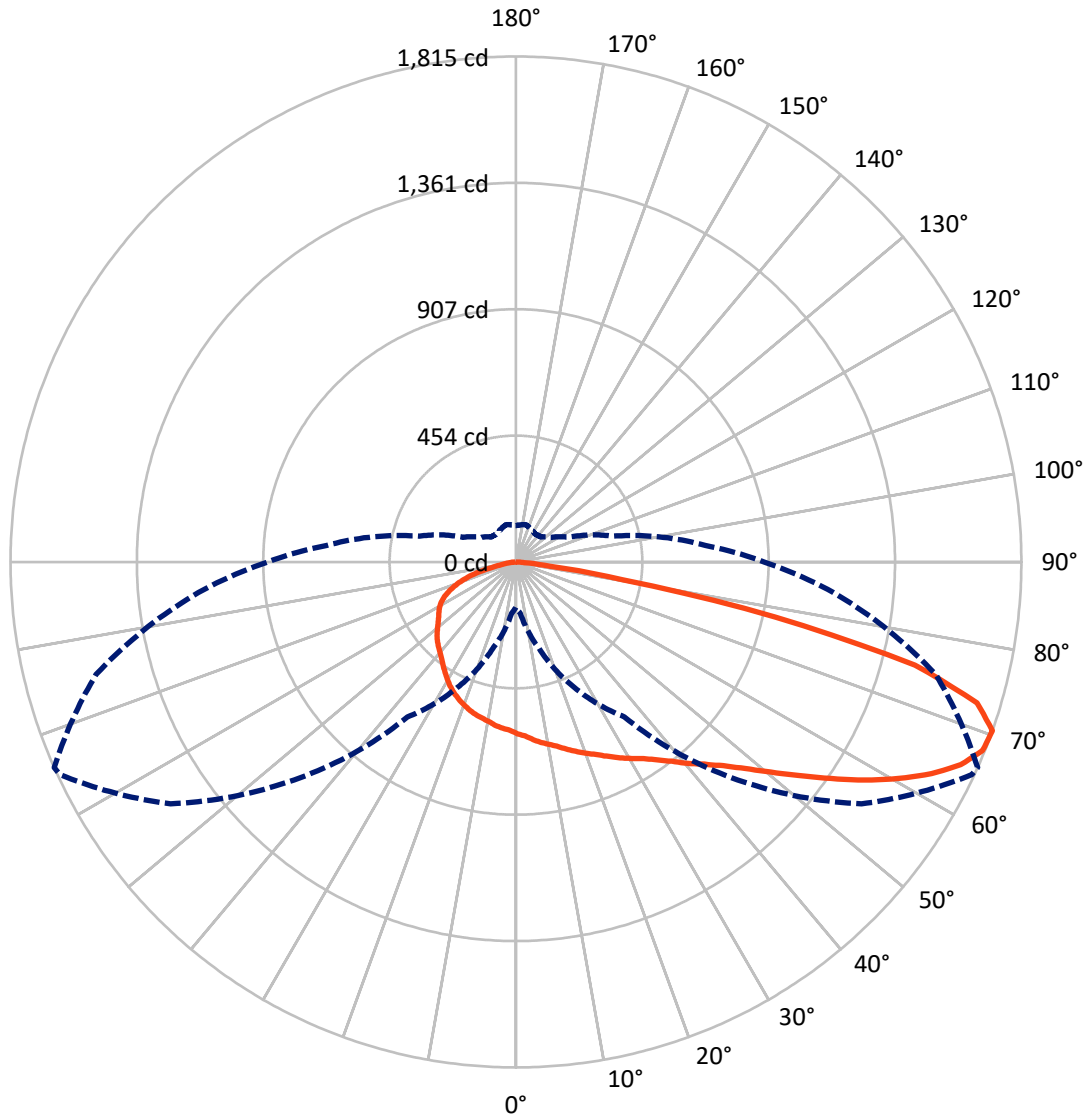
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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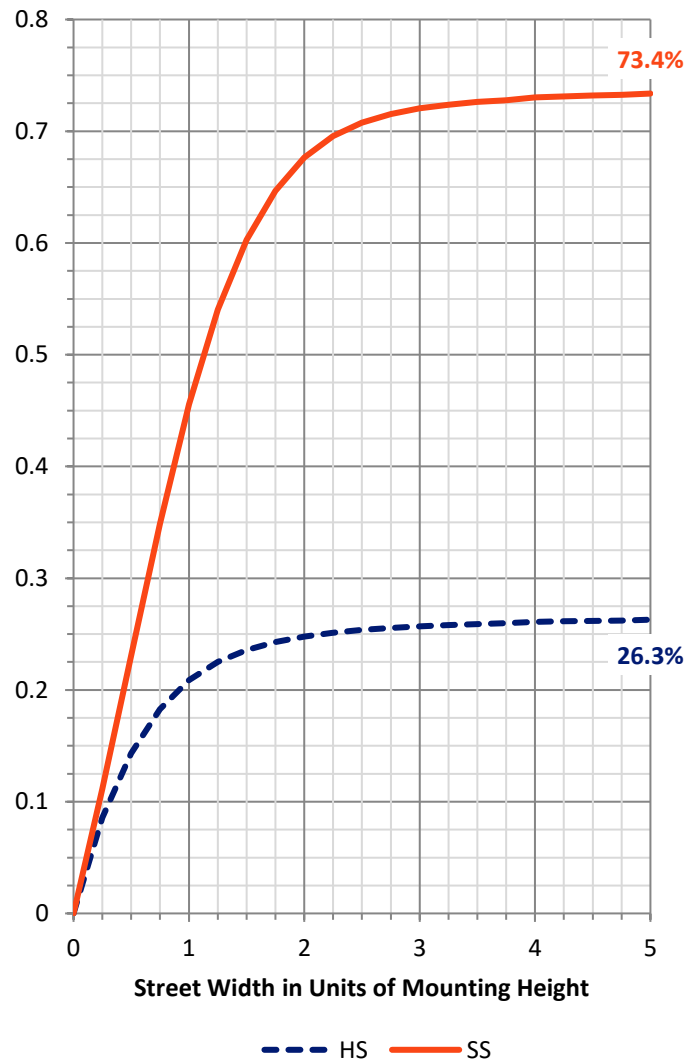
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	905.7	0.0	905.7
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	2512.3	0.0	2512.3
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	3418.0	0.0	3418.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	1.7
10°-20°	177.8	5.2
20°-30°	298.1	8.7
30°-40°	446.3	13.1
40°-50°	596.7	17.5
50°-60°	696.7	20.4
60°-70°	692.7	20.3
70°-80°	410.1	12.0
80°-90°	40.4	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3418.0	100.0
0°-180°	3418.0	100.0

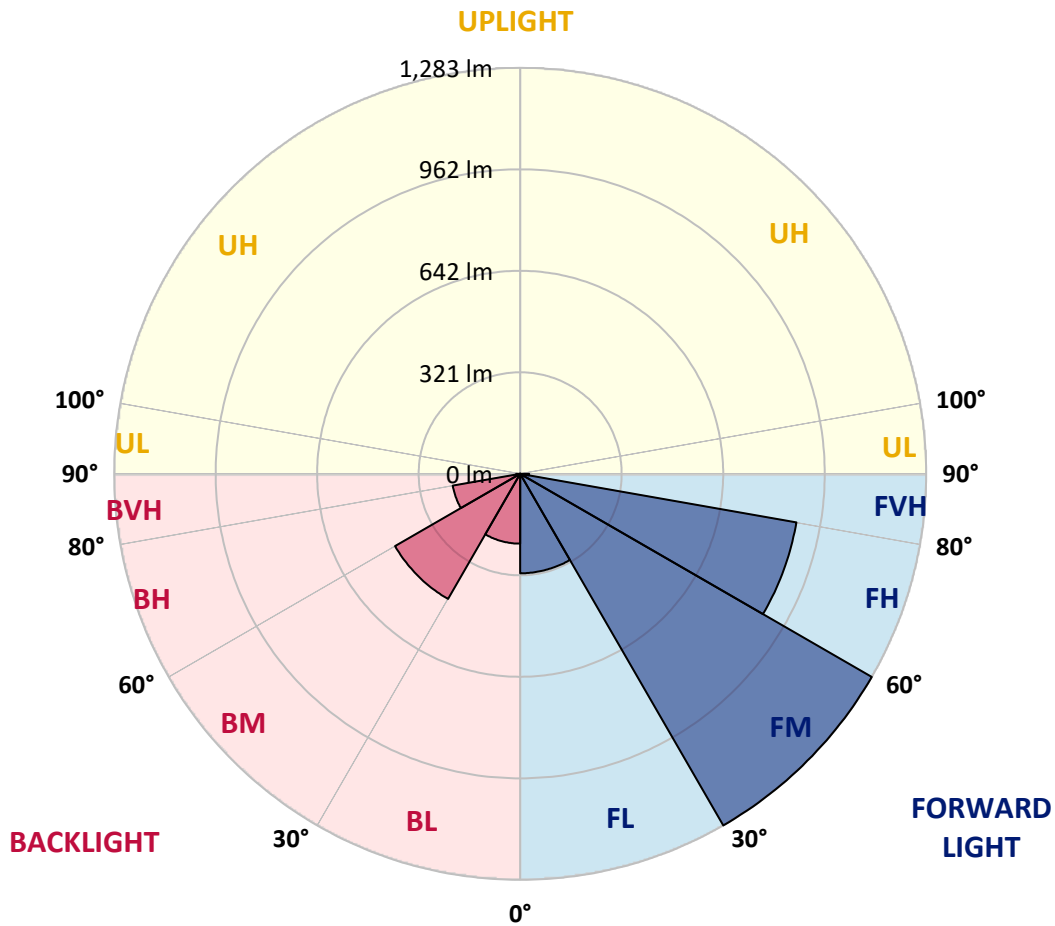


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.4	9.2			
FM (30°-60°)	1283.1	37.5			
FH (60°-80°)	886.5	25.9			G1/1800
FVH (80°-90°)	28.4	0.8			G1/100
BL (0°-30°)	220.8	6.5	B1/500		
BM (30°-60°)	456.6	13.4	B1/1000		
BH (60°-80°)	216.3	6.3	B1/500		G1/500
BVH (80°-90°)	12.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9
2.5°	639.6	638.5	638.0	636.0	631.5	633.5	629.0	625.9	625.4	618.4	614.4
5°	665.8	665.3	664.2	661.2	654.2	655.2	647.6	642.1	640.6	629.5	620.9
7.5°	687.9	686.9	686.4	682.4	674.8	674.3	665.3	657.2	654.7	639.6	626.4
10°	705.1	703.6	704.6	700.5	692.5	691.0	679.4	668.8	666.3	647.1	629.0
12.5°	719.7	718.7	720.2	716.7	710.1	708.6	697.0	683.4	680.4	658.2	634.5
15°	735.8	732.3	735.3	733.8	729.3	728.8	718.2	703.1	699.0	672.3	643.1
17.5°	744.4	742.4	745.9	746.4	744.4	747.9	737.8	719.7	716.2	685.4	650.6
20°	750.4	747.4	751.4	754.5	756.0	763.0	755.0	737.3	733.3	698.0	657.7
22.5°	771.1	764.5	765.0	767.1	768.1	778.1	773.1	756.0	751.9	713.6	666.3
25°	823.0	809.9	801.3	795.3	788.2	796.8	793.8	777.1	773.6	732.3	676.8
27.5°	903.6	887.0	869.9	852.2	824.5	821.0	815.9	800.8	796.8	750.9	687.4
30°	995.4	978.7	958.6	930.3	878.4	851.2	839.6	823.0	818.5	767.6	697.5
32.5°	1086.6	1072.0	1051.8	1017.5	943.5	888.0	863.3	846.2	841.6	785.7	709.6
35°	1157.6	1148.6	1135.5	1092.6	1008.0	931.4	897.6	876.9	871.9	814.4	731.8
37.5°	1215.1	1208.5	1197.5	1152.6	1054.8	974.7	936.9	913.2	907.7	845.7	755.5
40°	1299.8	1282.6	1273.6	1208.5	1095.7	1014.0	981.2	956.6	950.5	878.9	774.6
42.5°	1371.8	1359.2	1348.1	1258.4	1134.5	1047.8	1023.1	1000.4	992.3	911.7	795.3
45°	1383.9	1389.0	1383.4	1283.1	1195.9	1081.0	1065.4	1050.8	1043.2	956.0	826.5
47.5°	1384.4	1384.4	1351.7	1297.2	1272.0	1118.3	1110.8	1115.8	1107.7	1012.5	863.8
50°	1348.1	1354.7	1337.6	1300.8	1292.2	1155.6	1166.2	1193.4	1185.4	1072.5	904.1
52.5°	1273.1	1294.7	1294.2	1295.2	1263.0	1187.4	1224.7	1286.7	1273.1	1140.0	947.0
55°	1140.5	1183.8	1222.7	1255.9	1237.8	1206.5	1296.2	1385.9	1371.8	1215.6	990.3
57.5°	1027.1	1054.8	1103.2	1197.5	1208.0	1223.2	1363.3	1489.8	1477.2	1299.3	1035.7
60°	897.6	935.9	984.3	1118.3	1171.8	1244.8	1436.8	1591.1	1579.0	1383.9	1079.5
62.5°	698.5	747.9	844.7	996.9	1118.8	1258.4	1494.8	1680.3	1674.7	1464.1	1118.8
65°	486.8	530.7	666.3	847.7	1034.7	1252.4	1541.2	1759.9	1754.9	1529.6	1146.6
67.5°	284.2	335.1	488.4	682.4	886.0	1210.6	1556.3	1806.8	1806.8	1569.4	1154.1
70°	162.3	186.0	322.0	497.4	679.4	1095.1	1514.0	1806.3	1814.8	1560.3	1122.9
72.5°	113.4	124.0	216.7	334.6	460.6	886.0	1403.1	1719.1	1730.7	1474.6	1016.0
75°	88.2	95.8	152.7	228.3	290.3	601.8	1160.7	1449.4	1480.2	1256.9	821.5
77.5°	67.0	72.6	89.2	142.6	186.0	345.7	766.0	950.5	952.5	769.6	440.5
80°	48.9	54.4	59.5	87.2	98.8	161.8	289.3	397.1	386.0	372.4	238.4
82.5°	29.2	34.8	36.3	47.4	48.4	69.0	101.3	128.0	123.0	163.8	111.9
85°	12.6	17.6	18.6	21.7	20.7	28.2	40.3	33.8	30.2	34.8	24.2
87.5°	3.0	5.0	5.0	5.5	4.5	7.1	7.6	5.5	5.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9	616.9
2.5°	613.3	611.8	612.3	603.8	601.2	598.7	597.2	596.2	595.2	596.7	598.2
5°	617.9	614.4	610.3	597.7	592.7	587.1	583.1	579.6	578.1	578.1	579.6
7.5°	621.4	615.4	606.8	590.2	581.1	573.5	567.0	562.4	559.9	559.9	561.4
10°	621.9	613.3	599.7	579.6	567.5	556.4	548.8	543.8	540.3	540.3	541.3
12.5°	624.9	613.3	595.7	571.5	556.4	542.8	533.7	526.2	524.6	524.6	525.7
15°	630.0	615.9	593.2	564.5	546.3	530.7	520.6	512.5	509.5	511.5	512.0
17.5°	634.5	617.4	588.6	555.4	533.7	516.6	505.5	498.4	494.4	498.9	498.9
20°	637.5	617.4	582.1	543.8	520.1	501.0	490.4	481.8	478.8	484.3	484.8
22.5°	642.1	616.9	575.0	532.2	505.5	485.3	474.7	468.2	466.7	472.7	474.7
25°	647.1	617.9	567.5	519.1	489.4	469.7	461.6	458.6	459.6	467.2	469.7
27.5°	652.7	619.9	559.9	504.5	471.7	454.1	449.5	451.1	455.1	464.7	467.7
30°	657.7	620.4	549.3	487.3	451.6	434.9	437.0	443.5	449.5	459.1	462.7
32.5°	664.2	620.9	538.3	468.7	429.9	417.8	426.9	437.5	443.5	452.6	456.6
35°	680.4	629.5	529.7	450.6	409.7	403.2	418.3	431.9	435.4	443.5	447.0
37.5°	699.0	643.6	525.1	431.9	390.1	388.6	407.7	421.3	422.3	427.4	430.9
40°	710.6	649.6	520.1	416.3	372.4	373.4	393.1	403.7	401.7	405.2	407.7
42.5°	722.2	651.6	509.5	403.2	355.8	356.8	371.9	379.5	380.5	388.1	391.6
45°	741.9	657.2	497.9	391.1	340.7	337.2	346.2	356.3	369.4	384.0	388.1
47.5°	768.1	668.8	485.8	376.5	326.1	314.5	318.0	335.7	349.3	362.9	365.4
50°	794.8	680.4	474.7	358.8	311.5	290.3	291.8	307.9	319.0	329.6	331.1
52.5°	821.0	690.5	465.2	342.2	294.8	261.6	267.6	284.2	291.8	296.8	298.4
55°	847.2	699.0	456.6	328.1	275.7	238.9	244.4	260.1	267.6	270.1	271.1
57.5°	874.4	709.1	450.1	316.0	254.0	218.7	222.3	233.3	240.4	243.4	242.4
60°	897.1	717.7	446.5	303.4	232.3	200.1	199.1	209.2	219.2	222.3	221.2
62.5°	914.7	723.2	441.0	287.3	213.2	181.4	176.4	189.5	200.1	202.1	203.6
65°	924.3	723.7	427.4	266.6	193.5	161.3	157.7	170.8	177.4	179.4	179.4
67.5°	922.8	715.7	400.7	238.9	175.4	143.1	140.1	148.2	157.7	159.3	157.7
70°	891.5	682.4	357.8	209.7	153.7	127.0	121.5	129.5	138.6	133.1	130.5
72.5°	802.8	596.2	294.8	177.4	129.5	106.8	104.3	112.4	112.9	113.9	111.4
75°	633.5	444.0	220.7	138.1	104.8	89.7	89.2	87.7	89.7	93.7	90.7
77.5°	332.6	221.8	119.4	84.7	76.1	72.1	68.5	68.0	74.1	76.6	73.6
80°	180.4	124.5	68.5	50.9	46.4	46.9	51.4	50.4	56.9	58.5	55.9
82.5°	78.6	59.0	33.8	30.7	30.7	30.2	31.8	35.3	42.3	42.3	33.8
85°	17.1	14.6	13.1	15.1	17.1	17.1	17.1	17.1	12.1	6.6	4.5
87.5°	5.5	5.5	5.5	6.0	6.6	6.6	5.5	4.0	2.5	0.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)